21. The method for allocating subcarriers to subscribers according to claim 20, further including the step of allocating several codes to each station for near/far subscribers, and separating far/near subscribers using different codes.

22. The method for allocating subcarriers to subscribers according to claim 20, further including the step of allocating several codes to each of several adjacent users within one cell, to decrease the interference resulting from Doppler, phase noise or collissions with other subscribers.

23. The method for allocating subcarriers to subscribers according to claim 20, wherein the code includes the subcarriers numbered:
0, 5, 2, 10, 4, 20, 8, 17, 16, 11, 9, 22, 18, 21, 13, 19, 3, 15, 6.

24. The method for allocating subcarriers to subscribers according to claim 20, wherein the multicarrier system is a cellular communication system.

25. The method for allocating subcarriers to subscribers according to claim 20, wherein the multicarrier system is a xDSL communication system.

26. The method for allocating subcarriers to subscribers according to claim 20, wherein a group of 22 carriers is allocated to one user, another user will be allocated a cycled version of the group.--

REMARKS

The present amendment addresses all the Examiner's objections, included in the Official Action of September 11, 2003.

The new claims only include the claims which were objected to by the Examiner, now in independent form and including all the limitations of intervening claims, or narrower claims depending therefrom, as follows:

New claim 16 comprises previous claims 4, 5 and 7.

New claims 17, 18 and 19 all depend from claim 16 and are belived allowable with that claim.

New claim 20 comprises previous claims 9, 11 and 12. The missing step D is from previous claim 11.

New claim 21 depends on new claim 20, further including the limitations of previous claim 13.

New claim 22 depends on new claim 20, further including the limitations of previous claim 14.

New claim 23 depends on new claim 20, further including the limitations of previous claim 15.

New claims 24, 25 and 26 all depend on new claim 20, further including additional limitations based on the original disclosure, so as not to introduce new matter.

In new claim 16 including the claim 7, the term "adjacent subscribers" was deleted. It has been used in the canceled claim 7.

In the original disclosure, the above term is non-existent. Applicant believes the removal of that term helps achieve the best definition of the invention, as presented in the disclosure and as approved by Examiner.

Furthermore, in new claim 16 the term "system" replaces the term "systems" used in canceled claim 7.

Applicant respectfully asks Examiner's permission for the above changes.

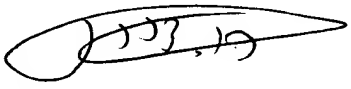
Petition and fee for extension of time:

Applicant respectfully asks to be granted a one month extension of time for this response.

Payment of the extension fee is by credit card, please find attached the **US PTO Credit Card Payment Form**, filled in the amount of $210 (small entity).

In view of the foregoing, it is believed that this application is now in condition for allowance, subject to the approval of the new drawings (see attached) by the Examiner.

Respectfully submitted,



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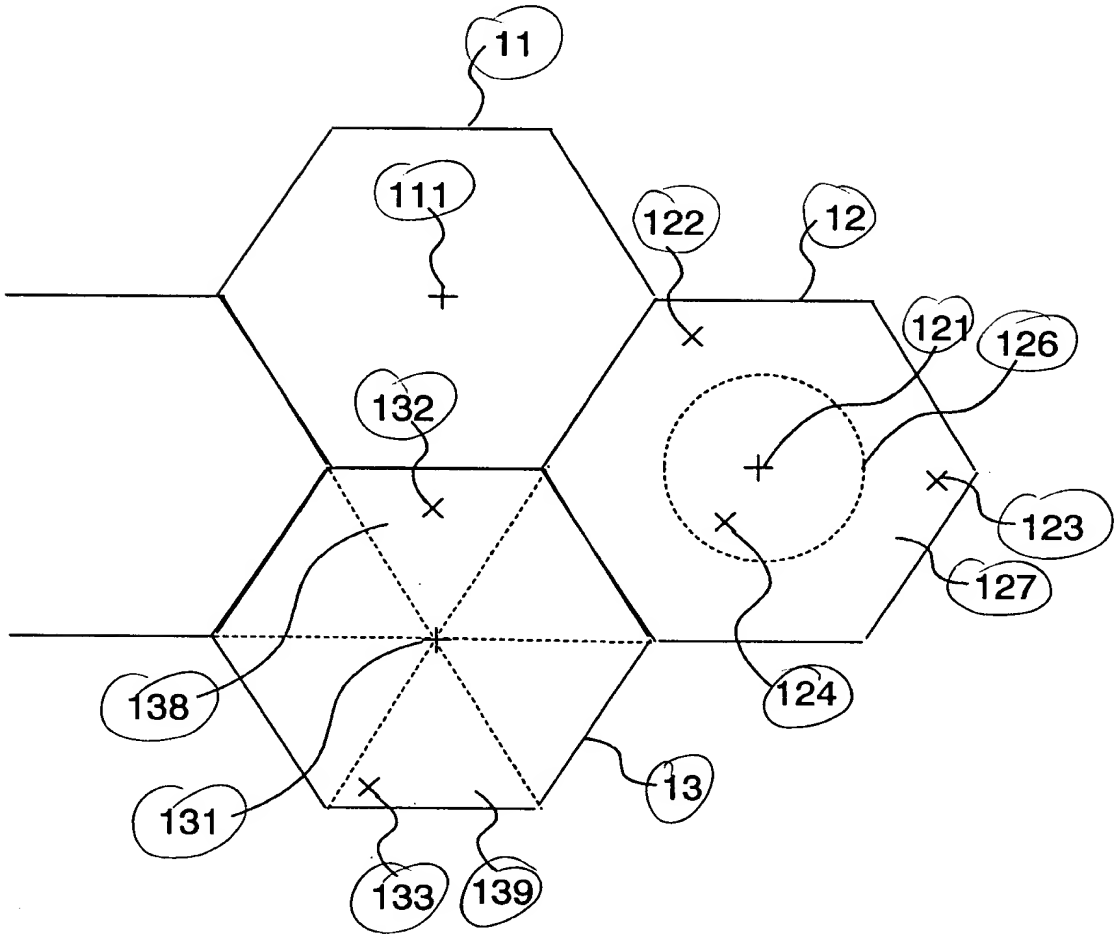

Fig. 1

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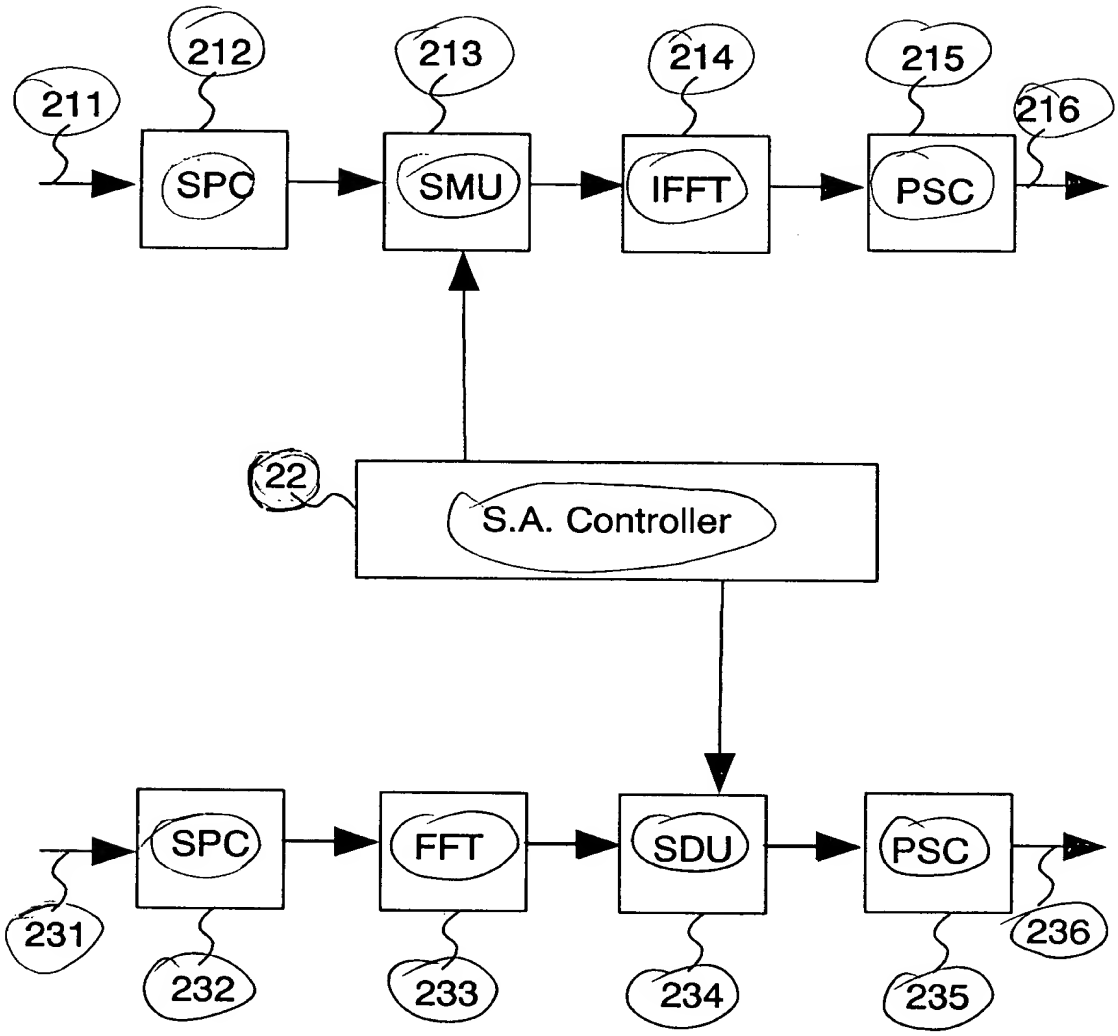

Fig. 2

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	0	5	2	10	4	20	8	17	16	11	9	22	18	21	13	19	3	15	6	7	12	14	1
	1	6	3	11	5	21	9	18	17	12	10	0	19	22	14	20	4	16	7	8	13	15	2
	2	7	4	12	6	22	10	19	18	13	11	1	20	0	15	21	5	17	8	9	14	16	3
	3	8	5	13	7	0	11	20	19	14	12	2	21	1	16	22	6	18	9	10	15	17	4
	4	9	6	14	8	1	12	21	20	15	13	3	22	2	17	0	7	19	10	11	16	18	5
	5	10	7	15	9	2	13	22	21	16	14	4	0	3	18	1	8	20	11	12	17	19	6
	6	11	8	16	10	3	14	0	22	17	15	5	1	4	19	2	9	21	12	13	18	20	7
	7	12	9	17	11	4	15	1	0	18	16	6	2	5	20	3	10	22	13	14	19	21	8
	8	13	10	18	12	5	16	2	1	19	17	7	3	6	21	4	11	0	14	15	20	22	9
	9	14	11	19	13	6	17	3	2	20	18	8	4	7	22	5	12	1	15	16	21	0	10
	10	15	12	20	14	7	18	4	3	21	19	9	5	8	0	6	13	2	16	17	22	1	11
	11	16	13	21	15	8	19	5	4	22	20	10	6	9	1	7	14	3	17	18	0	2	12
	12	17	14	22	16	9	20	6	5	0	21	11	7	10	2	8	15	4	18	19	1	3	13
	13	18	15	0	17	10	21	7	6	1	22	12	8	11	3	9	16	5	19	20	2	4	14
	14	19	16	1	18	11	22	8	7	2	0	13	9	12	4	10	17	6	20	21	3	5	15
	15	20	17	2	19	12	0	9	8	3	1	14	10	13	5	11	18	7	21	22	4	6	16
	16	21	18	3	20	13	1	10	9	4	2	15	11	14	6	12	19	8	22	0	5	7	17
	17	22	19	4	21	14	2	11	10	5	3	16	12	15	7	13	20	9	0	1	6	8	18
	18	0	20	5	22	15	3	12	11	6	4	17	13	16	8	14	21	10	1	2	7	9	19
	19	1	21	6	0	16	4	13	12	7	5	18	14	17	9	15	22	11	2	3	8	10	20
	20	2	22	7	1	17	5	14	13	8	6	19	15	18	10	16	0	12	3	4	9	11	21
	21	3	0	8	2	18	6	15	14	9	7	20	16	19	11	17	1	13	4	5	10	12	22
	22	4	1	9	3	19	7	16	15	10	8	21	17	20	12	18	2	14	5	6	11	13	0

Fig. 3

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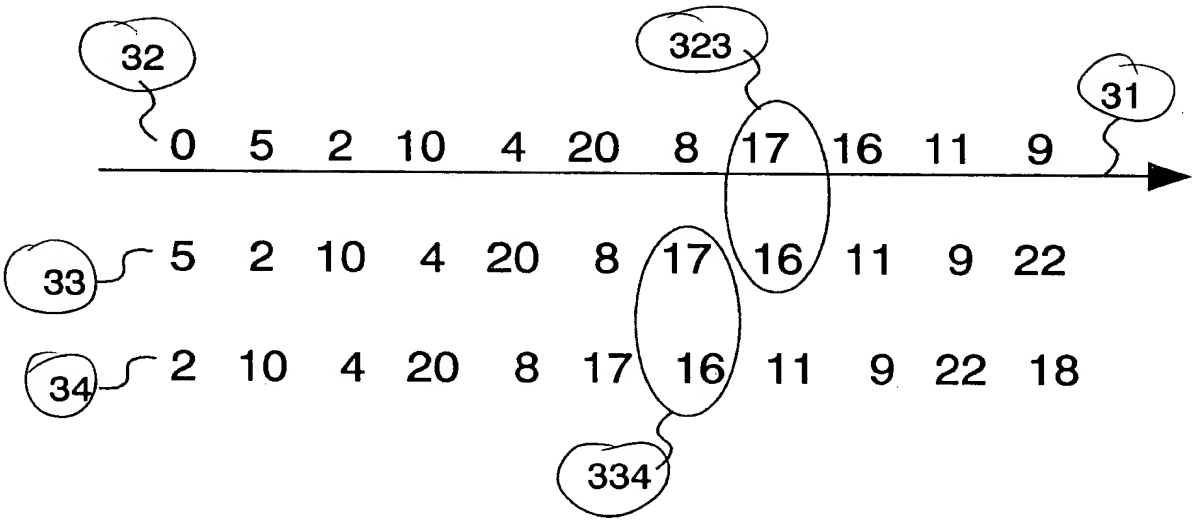

Fig. 4

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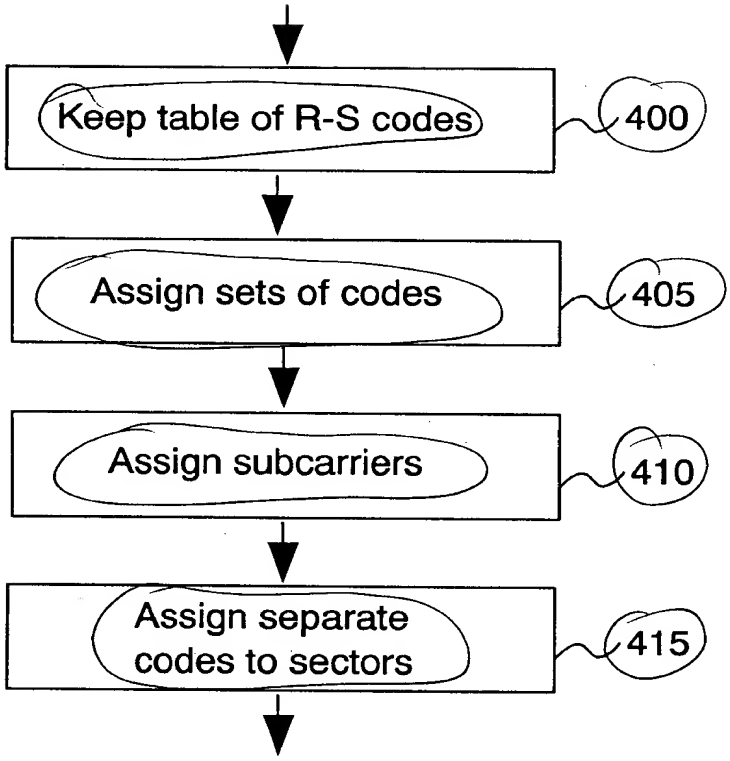

Fig. 5

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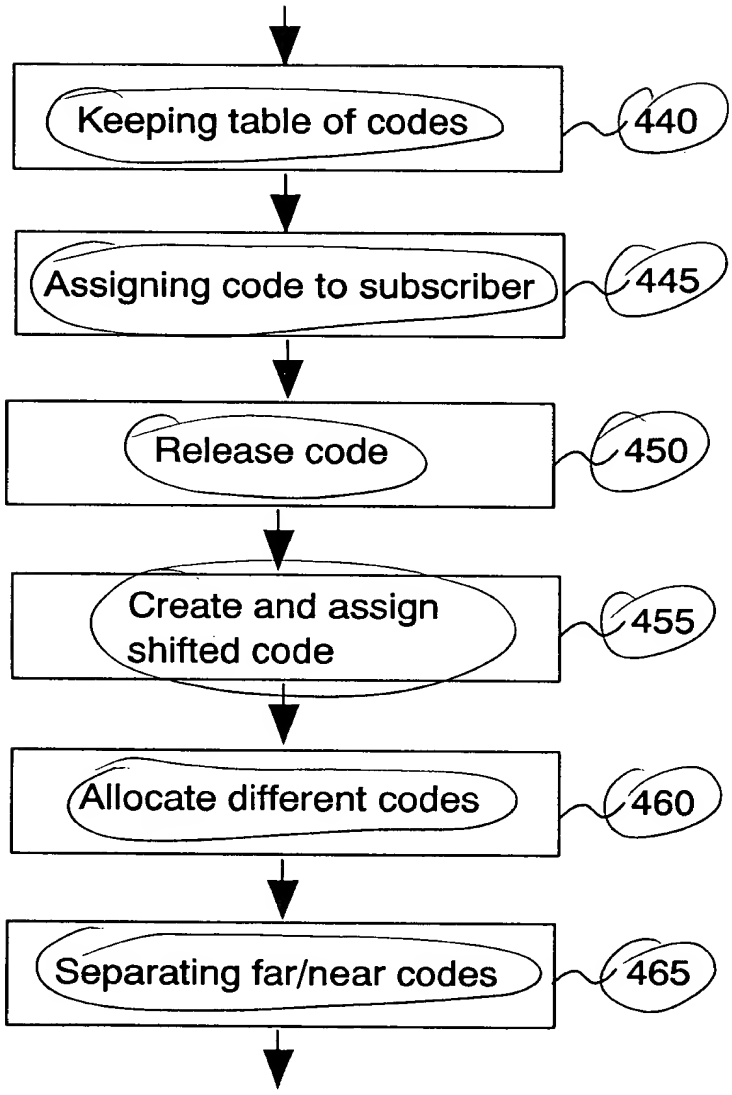

Fig. 6

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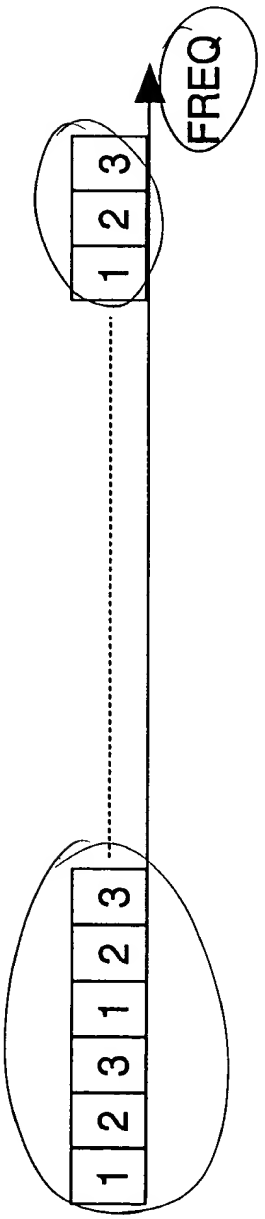

Fig. 7